


Exhibit 6

Exhibit 6
U.S. Patent No. 9,565,662
v.
AT&T’s 5G Cellular Services (“Exemplary Product”)

Claim Language	Selected Analysis and Evidence Regarding Exemplary Product
Claim 1	
[pre] A carrier management method of a base station for use in a carrier aggregation environment, comprising:	<p>The Exemplary Product is a carrier management method of a base station for use in a carrier aggregation environment.</p> <p>For example, Defendant markets and sells 5G cellular services to customers. <i>E.g.</i>, https://www.att.com/5g/consumer/ (</p>  <p>Let’s get started with AT&T 5G—it’s not complicated</p> <p>1 Confirm AT&T 5G coverage See if 5G has arrived in your area. Check 5G availability →</p> <p>2 Choose a 5G-capable phone Check out all our 5G offers. Shop 5G phones →</p> <p>3 Select an AT&T Unlimited plan AT&T Unlimited plans include 5G, ActiveArmor™ mobile security with spam and fraud call blocking, and more. Compare plans →</p> <p><small>Reqs compatible device/service. Other terms and reqs apply. Visit att.com/activearmor to learn more. AT&T may temporarily slow data speeds if the network is busy.</small></p> <p>). The 5G technology used by Defendant is defined by a wireless standards body in which Defendant is a member, the 3rd Generation Partnership Project (“3GPP”). 3GPP promulgates a number of standards including the 38.xxx series that defines the standards for 5G. These standards, including the specific aspects of the standards discussed below, define a method for managing base stations such as those utilized by Defendant in offering its 5G cellular services.</p> <p>The Exemplary Product has been infringing since at least its implementation of the standards set forth in version 15.4.0 of the 38.xxx series. On information and belief, the functionality described in this chart has been implemented in all versions of the 38.xxx series published</p>

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	<p>after version 15.4.0. The Exemplary Product may also have practiced the disclosed functionality prior to the publication of version 15.4.0 of the 38.xxx series.</p> <p>Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Wireless Alliance reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.</p>
<p>[a] transmitting a deactivation message for a secondary carrier to a terminal;</p>	<p>The base station in the Exemplary Product transmits a deactivation message for a secondary carrier to a terminal.</p> <p>For example, 3GPP TS 38.321 V15.4.0 (“TS 38.321”) describes, among other things, the deactivation of SCells by sending a deactivation message to a terminal. <i>E.g.</i>, TS 38.321 (which can be downloaded at https://www.3gpp.org/ftp//Specs/archive/38_series/38.321/38321-f40.zip) at 42-43, 61-62 (</p> <p>5.9 Activation/Deactivation of SCells</p> <p>If the MAC entity is configured with one or more SCells, the network may activate and deactivate the configured SCells. Upon configuration of an SCell, the SCell is deactivated.</p> <p>The configured SCell(s) is activated and deactivated by:</p> <ul style="list-style-type: none"> - <u>receiving the SCell Activation/Deactivation MAC CE described in subclause 6.1.3.10;</u> - configuring <i>sCellDeactivationTimer</i> timer per configured SCell (except the SCell configured with PUCCH, if any): the associated SCell is deactivated upon its expiry. <p>The MAC entity shall for each configured SCell:</p> <ul style="list-style-type: none"> 1> if an SCell Activation/Deactivation MAC CE is received activating the SCell: <ul style="list-style-type: none"> 2> activate the SCell according to the timing defined in TS 38.213 [6]; i.e. apply normal SCell operation including: 1> else if an SCell Activation/Deactivation MAC CE is received deactivating the SCell; or 1> if the <i>sCellDeactivationTimer</i> associated with the activated SCell expires: <ul style="list-style-type: none"> 2> deactivate the SCell according to the timing defined in TS 38.213 [6]; 2> flush all HARQ buffers associated with the SCell.

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	<p>6.1.3.10 SCell Activation/Deactivation MAC CEs</p> <p>The SCell Activation/Deactivation MAC CE of one octet is identified by a MAC PDU subheader with LCID as specified in Table 6.2.1-1. It has a fixed size and consists of a single octet containing seven C-fields and one R-field. The SCell Activation/Deactivation MAC CE with one octet is defined as follows (Figure 6.1.3.10-1).</p> <p>The SCell Activation/Deactivation MAC CE of four octets is identified by a MAC PDU subheader with LCID as specified in Table 6.2.1-1. It has a fixed size and consists of four octets containing 31 C-fields and one R-field. The SCell Activation/Deactivation MAC CE of four octets is defined as follows (Figure 6.1.3.10-2).</p> <ul style="list-style-type: none"> - C_i: If there is an SCell configured for the MAC entity with <i>SCellIndex</i> i as specified in TS 38.331 [5], this field indicates the activation/deactivation status of the SCell with <i>SCellIndex</i> i, else the MAC entity shall ignore the C_i field. The C_i field is set to "1" to indicate that the SCell with <i>SCellIndex</i> i shall be activated. <u>The C_i field is set to "0" to indicate that the SCell with <i>SCellIndex</i> i shall be deactivated;</u> - R: Reserved bit, set to "0". <div data-bbox="951 613 1503 716" data-label="Diagram"> </div> <p>Figure 6.1.3.10-1: SCell Activation/Deactivation MAC CE of one octet</p> <p>).</p> <p>Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Wireless Alliance reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.</p>
<p>[b] changing the secondary carrier to a deactivation state based on a predetermined time from the transmission of the deactivation message; and</p>	<p>The base stations used in the Exemplary Product change the secondary carrier to a deactivation state based on a predetermined time from the transmission of the deactivation message.</p> <p>For example, TS 38.321 describes the timing of deactivation being described in TS 38.213. TS 38.321 at 43 (</p> <p>1> else if an SCell Activation/Deactivation MAC CE is received deactivating the SCell; or</p> <p>1> if the <i>sCellDeactivationTimer</i> associated with the activated SCell expires:</p> <p>2> <u>deactivate the SCell according to the timing defined in TS 38.213 [6];</u></p> <p>2> flush all HARQ buffers associated with the SCell.</p>

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	<p>).</p> <p>3GPP TS 38.213 V15.4.0 (“TS 38.213”) describes the SCell being deactivated after a predetermined amount of time. <i>E.g.</i>, TS 38.213 (which can be downloaded at https://www.3gpp.org/ftp//Specs/archive/38_series/38.213/38213-f40.zip) at 11 (</p> <p>4.3 Timing for secondary cell activation / deactivation</p> <hr/> <p><u>If a UE receives a deactivation command [11, TS 38.321] for a secondary cell or the <i>sCellDeactivationTimer</i> associated with the secondary cell expires in slot <i>n</i>, the UE applies the corresponding actions in [11, TS 38.321] no later than the minimum requirement defined in [10, TS 38.133], except for the actions related to CSI reporting on a serving cell which is active which the UE applies in slot <i>n + k</i>.</u></p> <hr/> <p>). <i>See also</i> 3GPP TS 38.133 V15.4.0 (which can be downloaded at https://www.3gpp.org/ftp//Specs/archive/38_series/38.133/38133-f40.zip) at 69-70 (</p> <p>8.3.3 SCell Deactivation Delay Requirement for Activated SCell</p> <p>The requirements in this section shall apply for the UE configured with one downlink SCell in SCG in EN-DC, or in standalone NR carrier aggregation.</p> <p><u>Upon receiving SCell deactivation command or upon expiry of the <i>sCellDeactivationTimer</i> in slot <i>n</i>, the UE shall accomplish the deactivation actions for the SCell being deactivated no later than in slot $n + \lceil T_{HARQ} \rceil + 3\text{ms}$.</u></p> <p>The interruption on PCell or any activated SCell in SCG for EN-DC mode specified in section 8.2 shall not occur before slot $n + 1 + \lceil T_{HARQ} \rceil$ and not occur after slot $n + 1 + \lceil T_{HARQ} \rceil + 3\text{ms}$.</p> <p>The interruption on PCell or any activated SCell in MCG for NR standalone mode specified in section 8.2 shall not occur before slot $n + 1 + \lceil T_{HARQ} \rceil$ and not occur after slot $n + 1 + \lceil T_{HARQ} \rceil + 3\text{ms}$.</p> <p>).</p> <p>Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Wireless Alliance reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.</p>
[c] stopping downlink (DL) data transmission of the secondary carrier and initializing uplink (UL) and DL	The base stations in the Exemplary Product stop downlink (DL) data transmission of the secondary carrier and initialize uplink (UL) and DL buffers associated with the secondary carrier after transmitting the deactivation message.

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<p>buffers associated with the secondary carrier after transmitting the deactivation message.</p>	<p>For example, TS 38.321 describes stopping transmissions and flushing all HARQ buffers associated with an SCell after the deactivation message is transmitted. TS 38.321 at 42-43 (</p> <h2 data-bbox="751 347 1617 391">5.9 Activation/Deactivation of SCells</h2> <p data-bbox="751 412 1734 440">1> else if an SCell Activation/Deactivation MAC CE is received deactivating the SCell; or</p> <p data-bbox="751 456 1583 483">1> if the <i>sCellDeactivationTimer</i> associated with the activated SCell expires:</p> <ul style="list-style-type: none"> <li data-bbox="785 509 1583 537">2> deactivate the SCell according to the timing defined in TS 38.213 [6]; <li data-bbox="785 548 1360 576">2> flush all HARQ buffers associated with the SCell. <hr data-bbox="743 586 1745 602"/> <p data-bbox="785 651 1087 678">1> if the SCell is deactivated:</p> <ul style="list-style-type: none"> <li data-bbox="819 704 1167 732">2> not transmit SRS on the SCell; <li data-bbox="819 753 1142 781">2> not report CSI for the SCell; <li data-bbox="819 808 1247 836">2> not transmit on UL-SCH on the SCell; <li data-bbox="819 857 1226 885">2> not transmit on RACH on the SCell; <li data-bbox="819 911 1241 938"><u>2> not monitor the PDCCH on the SCell;</u> <li data-bbox="819 959 1247 987">2> not monitor the PDCCH for the SCell; <li data-bbox="819 1013 1205 1040">2> not transmit PUCCH on the SCell. <hr data-bbox="743 1049 1281 1065"/> <p data-bbox="743 1057 764 1084">).</p> <p data-bbox="743 1133 1955 1312">Investigation of both the patent and the Exemplary Product (and other potentially infringing products) is ongoing. This chart is based on evidence and analysis reasonably accessible at this time. Wireless Alliance reserves the right to update and amend its contentions, including adding additional claims and evidence, as the litigation progresses and discovery is provided by the defendant.</p>